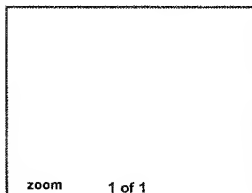


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Exhibit 4

**15785 (-)-Menthol**Riedel-de Haën **puriss., meets analytical specification of Ph. Eur., BP, USP, ≥99%**

zoom 1 of 1

**Synonym** (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol  
5-Methyl-2-(1-methylethyl)cyclohexanol

**Molecular Formula** C<sub>10</sub>H<sub>20</sub>O

**Molecular Weight** 156.27

**CAS Number** 2216-51-5

**Beilstein Registry Number** 1902293

**MDL number** MFCD00082979

**PubChem Substance ID** 24849703

**EG/EC Number** 218-690-9

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[Expand/Collapse All](#)**Price and Availability**[Click For Pricing and Availability](#)**Properties**

**grade** puriss.

**assay** ≥99%

**optical activity** [α]<sub>D</sub><sup>20</sup> -48 to -51°, c = 10% in ethanol

**quality** meets analytical specification of Ph. Eur., BP, USP

**total impurities** acidity or alkalinity, complies  
chromatographic purity (GC), complies  
related subst., complies  
residual solvents, complies  
≤0.05% non-volatile matter

**mp** 41-44 °C

**suitability** in accordance for appearance of the solution

**References**

**Beilstein** *Beil.* 6, IV, 150

**Safety**

**Hazard Codes** Xi

**Risk Statements** 37/38-41

**Safety Statements** 26-39

**WGK Germany** 2

**RTECS** OT0700000

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63660 (Fluka)

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